**bluemesh**

**Bluetooth®**  **FC**  **blueMesh Industrial**

## PRODUCT DESCRIPTION

The BMS-S15P-PIR-DC2-BLE-SR is a compact Bluetooth® mesh PIR occupancy sensor designed for high-efficiency lighting control. It supports daylight harvesting, zoning, and continuous 0–10V bi-level dimming, enabling wireless group control via mobile app. With a 360° detection range, up to 13ft mounting height, and built-in antenna, it offers reliable performance in various environments.

## ORDERING INFORMATION

| Description |
| --- |
| 0–10V Wireless PIR Motion Sensor |
| **Part Number** |
| BMS-S15P-PIR-DC2-BLE-SR |

## TECHNICAL  DATA

| | |
| --- | --- |
| **Sensor Type** | Passive infrared sensor |
| **Input Voltage** | 10–14VDC, >50mA |
| **Signal Output** | 0–10V, max 25mA sinking current |
| **Protocol** | Bluetooth® SIG mesh |
| **Mounting Height** | 13ft(4m) max. |
| **Max Bluetooth Range** | 100ft(30m) |
| **Detection Angle** | 360° |
| **Operating Temperature** | -4°F to 140°F(-20°C to 60°C) |
| **Certification** | FCC certified |
| **Connector Type** | Low-voltage connector |
| **Antenna** | Onboard |

## FEATURES

- ▪ PIR motion detection with 360° coverage.
- ▪ Supports daylight harvesting, zoning, high-end trim, and bi-level dimming.
- ▪ Onboard antenna, LED motion indicator, and reset via button or remote command.
- ▪ All 0–10V devices on the line are broadcast-controlled via mobile app.

**Smart Connectivity**
The Bluetooth mesh network extends control range by relaying signals between devices, enabling broader coverage. Bluetooth® SIG mesh enables wireless 0–10V dimming, zoning, and broadcast control via mobile app.

**Energy-Efficient Dimming**
Supports daylight harvesting, bi-level dimming, and high-end trim to reduce energy use in indoor environments.

**Precise Detection**
360° PIR sensing with mounting height up to 13ft ensures accurate occupancy detection in various spaces.

**Easy Integration**
Low-voltage sensor with onboard antenna, mobile reset, and standard connector simplifies deployment.
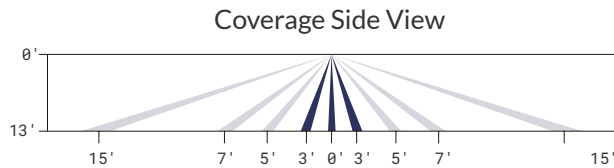The system supports both local and remote reset methods.
Local reset: press the button of the sensor for 5 seconds.
Remote: press "RESET"+" ON/OFF" buttons in sequence.
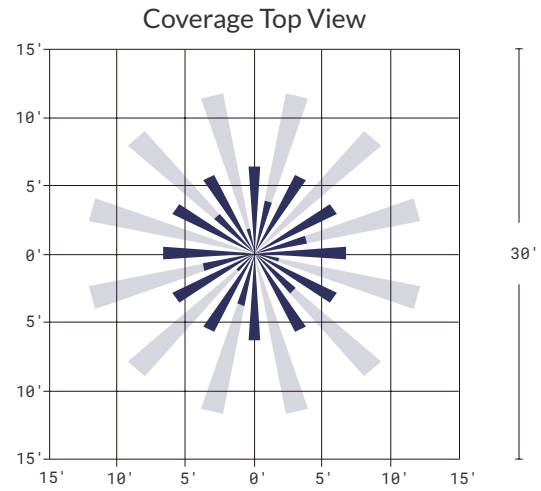
**Reliable Performance**
Offers stable Bluetooth range up to 100 ft and backed by a 5-year warranty. Actual performance varies based on installation factors.
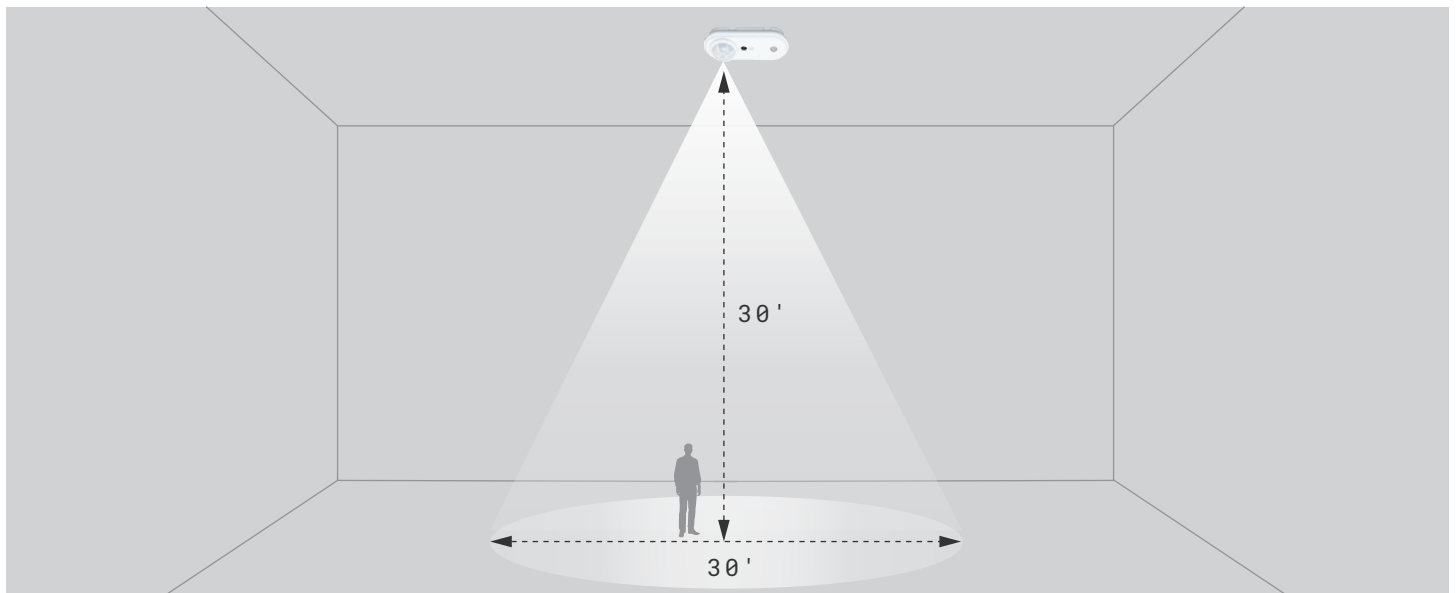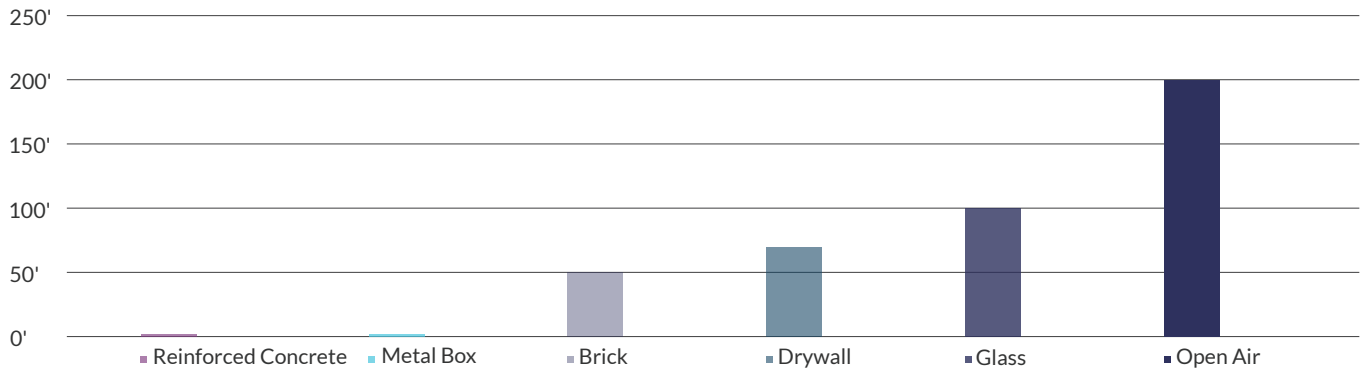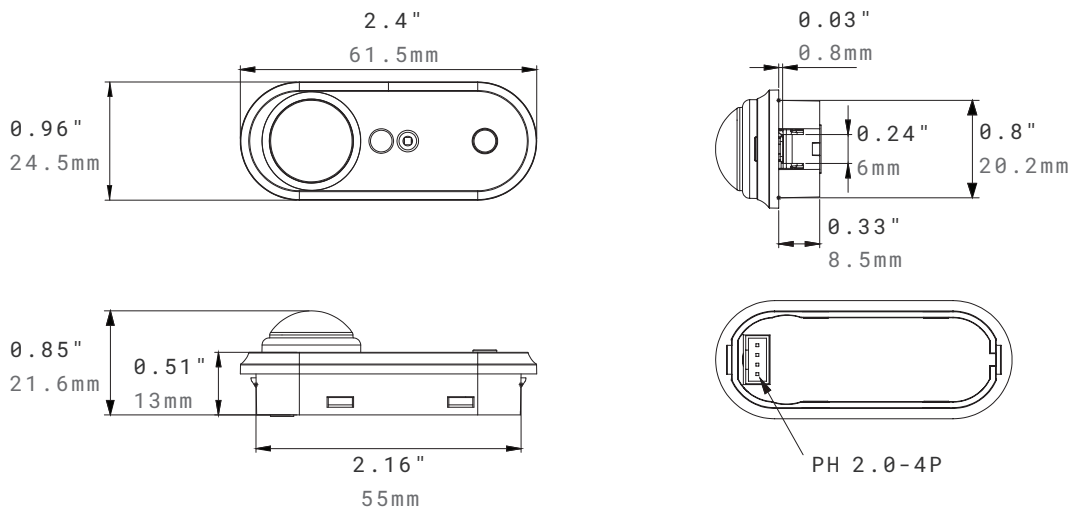
## DETECTION PATTERN

### Coverage Side View

| | |
|---|---|
| 0' | |
| 13' | |

15'  7'  5'  3' 0' 3'  5'  7'  15'

Minor Motion
Major Motion

### Coverage Top View

15'
10'
5'
0'
5'
10'
15'

15'  10'  5'  0'  5'  10'  15'

30'

### Devices Communication Distance

250'
200'
150'
100'
50'
0'

Reinforced Concrete | Metal Box | Brick | Drywall | Glass | Open Air

30'

30'

## DIMENSIONS

2.4"
61.5mm

0.96"
24.5mm

0.03"
0.8mm

0.24"
6mm

0.8"
20.2mm

0.33"
8.5mm

0.85"
21.6mm

0.51"
13mm

2.16"
55mm

PH 2.0-4P

## WIRING



L

N

Dimming Driver

−  −

+  +

LED

PH2.0-4P

(PINK)GND
(PINK) DIM-
(YELLOW )VCC
(PURPLE) DIM+

OR

PH2.0-3P

(PINK) GND/DIM-
(YELLOW )VCC
(PURPLE) DIM+
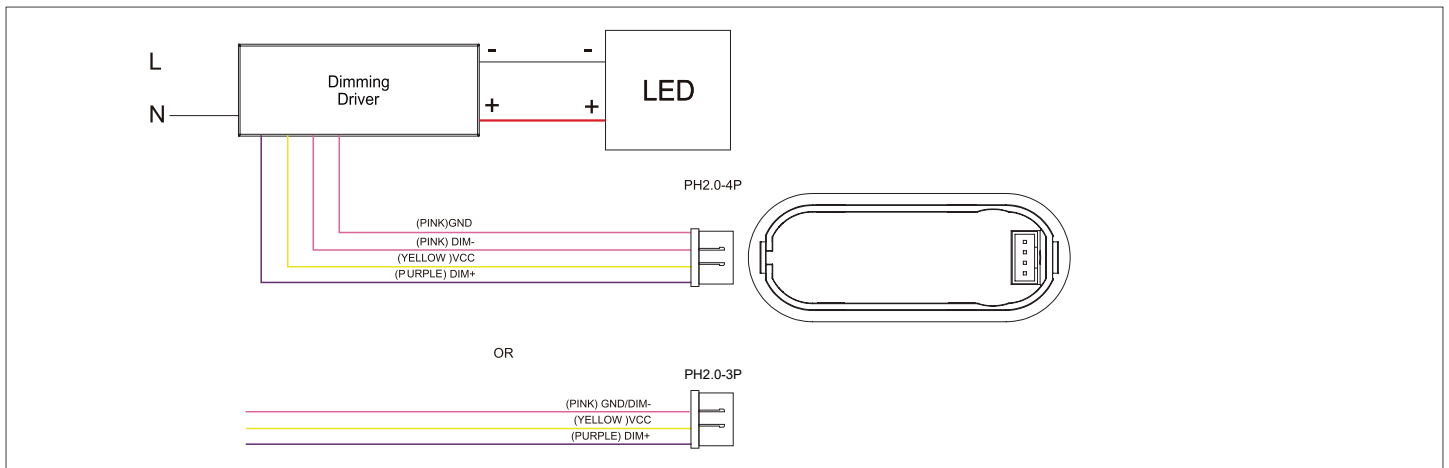
## WARRANTY

5 years limited warranty.